

EXERCISE C23:

EJERCICIO C 23:

Determine if the set $S = \langle \text{set} | (3, 1), (7, 3) \rangle$ is linearly independent in the crazy vector space C ([\(acronymref|example|CVS\)](#)).

Determinar si el conjunto $S = \langle \text{set} | (3, 1), (7, 3) \rangle$ es linealmente independiente en el espacio vectorial C . ([\(acronymref|example|CVS\)](#)).

SOLUTION:

SOLUCION:

Notice, or discover, that the following gives a nontrivial relation of linear dependence on S in C , so by [\(acronymref|definition|LI\)](#), the set S is linearly dependent.

$$2(3, 1) + (-1)(7, 3) = (7, 3) + (-9, -5) = (-1, -1) = 0$$

a continuacion, note que lo siguiente, da una relacion no trivial de la dependencia lineal de S in C , entonces por [\(acronymref|definition|LI\)](#), el conjunto S . es linealmente dependiente.

$$2(3, 1) + (-1)(7, 3) = (7, 3) + (-9, -5) = (-1, -1) = \{0\}$$